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MANUFACTURE OF COMPOSITE MATERIAL OF THERMOPLASTIC RESIN-CLAY MINERAL

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Inventor(s): OKANO HIROSHI;; OYAMADA HIROSHI
Applicant(s): ASAHI CHEM IND CO LTD
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Abstract

PROBLEM TO BE SOLVED: To manufacture a composite material of thermoplastic resin-clay mineral with good mechanical properties by an economical and simple method.

SOLUTION: The manufacture is such that (A) 100 pts.wt. of thermoplastic resin, (B) 0.05-50 pts.wt. of clay mineral with an onium ion carrying organic substance inserted in layers, and (C) dispersion medium of 0.1-5000 pts.wt. of dispersion medium relative to 100 pts.wt. of (B) component are melt-kneaded by an extruder having a ratio of flight width/pitch in the screw of a supplier in the range of 0.1-0.49.

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